



Date: October 17, 2022

To: Wanda S. Page, City Manager
Through: Bertha Johnson, Deputy City Manager
From: Donald F. Greeley, Director, Water Management
Subject: Town of Cary-City of Durham Western Intake Partnership Water Treatment Pilot Study Agreement

Executive Summary

The City of Durham, Chatham County, Town of Pittsboro, and Orange Water and Sewer Authority entered into the Memorandum of Agreement (“Agreement”) for the Western Intake Partnership (“WIP”) in June 2019. The purpose of the WIP is to collaborate on the construction of an intake and treatment facility on the western side of Jordan Lake. These new facilities will allow the members of the WIP to access their Jordan Lake Water Supply Storage Allocations. Jordan Lake is an essential component of the City’s future water supply.

The City of Durham is designated as the Lead Agency to accomplish the purposes approved by the Management Team. As such, the City is the fiscal and contracting agent for the WIP, and will enter into necessary contracts in support of the WIP. On January 3, 2022, City Council awarded a professional engineering services contract to CDM Smith, Inc. (CDM) for the Regional Water Treatment Facility Preliminary Engineering Project. A Bench and Pilot Testing Study (“Study”) is necessary for the project. The Study will replicate the water treatment process on a small scale, allowing comparison of different treatment technologies. The Study would be conducted at the Cary/Apex Water Treatment Facility (“CAWTF”). An agreement has been negotiated with the Town of Cary at a cost of \$8,000 for operating the Study at the CAWTF, plus an addition \$1,000 for contingency, for a total cost of \$9,000. This contract with the Town of Cary is essentially a lease of space in the Town of Cary’s water intake facility for use by the WIP.

Motion

To authorize the City Manager to execute an agreement with the Town of Cary for operating the Bench and Pilot Testing Study at the Cary/Apex Water Treatment Facility for a total cost of \$9,000.

Background

The City of Durham, Chatham County, Town of Pittsboro, and Orange Water and Sewer Authority entered into the Memorandum of Agreement (“Agreement”) for the Western Intake Partnership (“WIP”) in June 2019. The purpose of the WIP is to collaborate on the construction of an intake and treatment facility on the western side of Jordan Lake. These new facilities will allow the members of the WIP to access their Jordan Lake Water Supply Storage Allocations. Jordan Lake is an essential component of the City’s future water supply.

Under the Agreement, the activities and management of the WIP are guided by the Management Team, which consists of a representative from each WIP member. The City of Durham is designated as the Lead Agency to accomplish the purposes approved by the

Management Team. As such, the City is the fiscal and contracting agent for the WIP, and will enter into necessary contracts in support of the WIP.

On January 3, 2022, City Council awarded a professional engineering services contract to CDM Smith, Inc. (CDM) for the Regional Water Treatment Facility Preliminary Engineering Project (“Original Contract”). Task 6 under the Original Contract included preparing a Pilot Testing Plan to perform a preliminary bench-scale and pilot treatability study to confirm treatability and proof of concept. The Department of Water Management (“DWM”) returned to the City Council on October 3, 2022, with an amendment to the contract with CDM for the Bench and Pilot Testing Study (“Study”).

Issues and Analysis

A Bench and Pilot Testing Study (“Study”) is necessary for the project. The Study will replicate the water treatment process on a small scale, allowing comparison of different treatment technologies. CDM staff, DWM staff, and HDR staff have explored many options for conducting the Study which must be conducted using water from Jordan Lake. Options included installing temporary facilities at the Chatham County WTF, installing temporary facilities at the Vista Point State Park, and using facilities at the Cary/Apex Water Treatment Facility (“CAWTF”). The most cost-effective option is to enter into an agreement with the Town of Cary to make use of facilities at the CAWTF for conducting the Study at a cost to the City of \$8,000, plus an additional \$1,000 for contingency, for a total cost of \$9,000.

Alternatives

Do not authorize the City Manager to execute a rental agreement with the Town of Cary. Declining the authorization to execute an agreement with the Town of Cary would increase the cost of the Study.

Financial Impact

The cost of the agreement with the Town of Cary is \$8,000, plus an additional \$1,000 for contingency, for a total cost of \$9,000. Funding for this project is available in the following account:

Organization Code	Object Code	Project Code	Amount
4100P002	731004	P0654	\$9,000.00

Equal Business Opportunity Summary

The Ordinance to Promote Equal Opportunity in City Contracting does not apply to this item.

Contractor Workforce Diversity & Hiring Practices

The “Contractor Workforce Diversity Questionnaire” does not apply to this item.

Attachment

Cary-Durham Pilot Agreement